

Message Text

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PAGE 01 OECD P 08050 01 OF 02 011558Z

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ACTION EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NSAE-00 TRSE-00 EUR-12

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R 011543Z APR 75

FM USMISSION OECD PARIS

TO SECSTATE WASH DC 6280

C O N F I D E N T I A L SECTION 01 OF 02 OECD PARIS 08050

EXCON

E.O. 11652 XGDS1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW - IL 1545 - TRANSISTORS

REFS: A. COCOM DOC REV (74) 1545/1

B. COCOM DOC REV (74) 1545/2 AND 3

C. STATE 59557

SUMMARY: IN DISCUSSIONS OF THE TRANSISTOR EMBARGO DEFINITION ON MARCH 20, THE US TEAM FOLLOWED THE GUIDANCE OF REF B WHICH WAS VERY HELPFUL IN REFLECTING THE DICHOTOMIES OF THE COMMERCE TECHNICAL ADVISORY COMMITTEE AND GOVERNMENTAL LICENSING AND ADVISORY PERSONNEL ON THE ONE HAND AND THE GENERAL VIEWS OF THE PURELY TECHNICALLY ORIENTED GOVERNMENTAL COMMUNITY ON THE OTHER. ALTHOUGH THE USDEL, ADVISED BY THE WASHINGTON TEAM, RESERVED IN THOSE AREAS WHERE INTERAGENCY CONTROVERSY EXISTS, WE BELIEVE THAT THE REDEFINITION AGREED BY THE OTHER PC'S AND WHICH WAS FRUSTRATED BY THOSE US RESERVES HAS TECHNICAL AND INTELLIGENCE INTEGRITY IN TERMS OF NSDM - 159. WE RECOMMEND THAT THIS ITEM BE CONCLUDED SIMPLY WITHOUT NEED FOR FURTHER DISCUSSION BY THE LIFTING OF THE US RESERVATION. END SUMMARY.

1. DISCUSSION OPENED WITH THE JAPANESE DEL WITHDRAWING ITS PROPOSAL TO REDEFINE THE ITEM TO WHICH ALL OTHER DE-
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PAGE 02 OECD P 08050 01 OF 02 011558Z

LEGATIONS HAD RESERVED. THE US ACCEPTED AD REF THE DELE-

TION OF (B) GERMANIUM TRANSISTORS AND SUPPORTED THE INSERTION OF THE WORD "GERMANIUM" IN THE HEADING OF (C), SILICON TRANSISTORS AS PROPOSED BY ITALY.

2. THE US AGREED TO ACCEPT A MAXIMUM $F \cdot S$ IN (C) (1) OF 2 GHZ. THE NETHERLANDS (WHICH WISHED TO RELEASE TWO LOW COST HIGH POWER TRANSISTORS USED IN NORMAL TV BROADCASTING WHICH HAVE AN $F \cdot S$ OF 3 TO 3.5) NOTED THAT EASTERN EUROPE MAKES TV EQUIPMENT, THEREBY INDICATING THAT IT ALSO HAS THE CAPABILITY TO MANUFACTURE THE TUBES IN QUESTION. THE US OFFERED A REVISED FORMAT FOR CALCULATING THE FREQUENCY/POWER PRODUCT EMBARGO PARAMETER BETWEEN 1 AND 2 GHZ WHICH WAS EXPLAINED AS AN ATTEMPT TO PLACE INCREASED EMPHASIS ON FREQUENCY MORE THAN ON POWER IN ORDER ADEQUATELY TO CONTROL DEVICES USED IN MILITARY COMMUNICATIONS EQUIPMENT. GERMANY AGREED TO THE US PROPOSAL; JAPAN AND FRANCE COULD ACCEPT 2 GHZ AD REF, BUT RESERVED ON THE US FORMULA; AND THE OTHER DELEGATIONS RESERVED IN FAVOR OF A 3 OR 3.5 GHZ CUTOFF IN (1) (NETHERLANDS, BELGIUM, ITALY, CANADA, UK) AND ADJUSTMENTS FOR HIGH POWER, LOW FREQUENCY AND LOW POWER, HIGH FREQUENCY DEVICES USED IN TV.

3. THE US RESERVED ON THE BRITISH/BELGIAN PROPOSAL TO RAISE THE PRODUCT FACTOR IN (C) (2) TO 6,000, BUT ALL OTHER DELS ACCEPTED. THE ITALIAN PROPOSAL TO RAISE THE PRODUCT FACTOR IN (C)(2) TO 1500 ENCOUNTERED RESERVES FROM ALL DELEGATIONS IN FAVOR OF THEIR OWN PREFERRED FIGURES.

4. THE NETHERLANDS PROPOSAL OF AN EXCLUSION CLAUSE FOR (C) (2) TO PROVIDE A FLOOR FIGURE FOR POWER DISSIPATION WAS RAISED IN CONNECTION WITH THE US FORMULA IN PARA. 2 ABOVE. FRANCE AND JAPAN LIFTED THEIR AD REFS FROM ROUND 1 LEAVING THE US ALONE IN RESERVING ON THAT NETHERLANDS PROPOSAL.

5. THE NEXT QUESTION WAS A JAPANESE COUNTER PROPOSAL (1545/3) TO EXCLUDE CERTAIN FIELD EFFECT TRANSISTORS (FET'S) WHICH HAVE A MAXIMUM COLLECTOR DISSIPATION

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PAGE 03 OECD P 08050 01 OF 02 011558Z

TION OF 500 MILLIWATTS OR LESS, AND A MAXIMUM OPERATIVE FREQUENCY OF 250 MHZ OR LESS AND ARE IN NON-HERMETICALLY SEALED CASES. JAPAN ALSO PROVIDED THE MOST COMMONLY USED FORMULA FOR CALCULATING MAXIMUM OPERATING FREQUENCY (TRANSCONDUCTANCE IN MHO'S OVER TWO π TIMES INPUT CAPACITORS IN PICO FARADS) FOR FET'S. ALL DELEGATIONS ACCEPTED THE EXCLUSION (FRANCE AND US AD REF) WITH THE UNDERSTANDING THAT THE MAXIMUM TRANSCONDUCTANCE FIGURE

IS APPLIED TO THE FORMULA.

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PAGE 01 OECD P 08050 02 OF 02 011558Z

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6. THE NETHERLANDS ADMINISTRATIVE EXCEPTIONS NOTE FOR COMMON LOW FREQUENCY TRANSISTORS WAS UNSATISFACTORY TO THE UK AND THE US BECAUSE IT CONTAINED NO UPPER LIMIT FOR THE FREQUENCY/POWER PRODUCT OF THE DEVICES IN QUESTION. AFTER SEVERAL ADJUSTMENTS THE TEXT OF THE PROPOSED NEW NOTE 2 READS: "GOVERNMENTS MAY PERMIT, AS ADMINISTRATIVE EXCEPTIONS, THE SHIPMENT OF DEVICES EMBARGOED BY (B)(2) ABOVE, WHICH: (A) WILL BE USED IN IDENTIFIABLE CIVIL APPLICATIONS WITH A MAXIMUM FREQUENCY OF 1 GHZ, (B) ARE NOT ENCAPSULATED IN HERMETICALLY SEALED CASES, AND (C) HAVE A MAXIMUM POWER DISSIPATION OF 200 WATTS." ALL DELEGATIONS, EXCEPT THE US WHICH RESERVED, COULD ACCEPT THE NEW NOTE.

7. THE US REQUESTED THE VIEWS OF OTHER DELS CONCERNING THE LONGSTANDING NEED PERCEIVED BY THE US FOR COMMITTEE CONSENSUS ON THE MEASUREMENT OF POWER DISSIPATION WHICH HAD BEEN SUBJECT TO DISCUSSION IN ROUND I. DELEGATIONS ADHERED TO THE POSITIONS THAT THEY HAD TAKEN IN ROUND I. THE CONSENSUS APPEARS TO BE THAT WHERE TRANSISTORS ARE ENCAPSULATED IN CASES SUCH AS TO-3 WHERE IT IS OBVIOUS THAT AN INFINITE HEAT SINK

WOULD BE USED, THEN A MEASURED CASE TEMPERATURE OF 25 DEGREE CELSIUS WAS CALLED FOR UNDER INTERPRETIVE NOTE 8. WHERE PLASTIC ENCAPSULATION OR OUTLINES SUCH AS TO-13
CONFIDENTIAL

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PAGE 02 OECD P 08050 02 OF 02 011558Z

ARE USED AND WHERE A HEAT SINK IS NOT USUALLY INCORPORATED, MEASUREMENT SHOULD TAKE PLACE AT AN AMBIENT TEMPERATURE OF 25 DEGREES CELSIUS. THE FRENCH DELEGATION TERMINATED DEBATE BY OBSERVING THAT INTERPRETIVE NOTE 8 CAN BE CONSISTENTLY APPLIED IN TERMS OF REFERENCE TO THE NORMAL PRESENCE OR ABSENCE OF AN INFINITE HEAT SINK ASSOCIATED WITH THE ENCAPSULATION. THEREFORE, IF A PROBLEM EXISTED FOR THE US IT APPEARS TO BE UNIQUE AND NOT SHARED BY OTHER PC'S. IT WAS ALSO THE FRENCH OPINION THAT THE POWER DISSIPATION FOR TO-5 OUTLINES SHOULD BE MEASURED AT 25 DEGREES CELSIUS AMBIENT TEMPERATURE EVEN THOUGH THEY ARE, AS THE NETHERLANDS HAD OBSERVED, CAPABLE OF OPERATING WITHOUT DERATING UP TO 125 DEGREES CELSIUS.

8. ACTION REQUESTED: AUTHORITY TO LIFT THE US AD REFS AND RESERVED AS INDICATED ABOVE WHICH WERE TAKEN IN RESPONSE TO REF A, BUT WITH FULL KNOWLEDGE THAT THE NEGOTIATED CONSENSUS AGAINST WHICH THEY WERE LODGED IN REASONABLE IN MILITARY STRATEGIC AND TECHNOLOGICAL INTELLIGENCE TERMS.
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